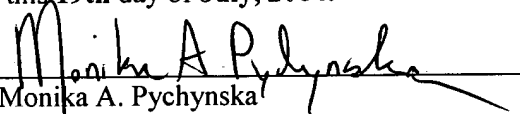I F W

**PATENT**
Attorney Docket No. VXM-001C

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Vitaliano *et al.*

SERIAL NO.: 10/660,976    GROUP NO.:    1631

FILING DATE: September 11, 2003    EXAMINER:    Not yet assigned

TITLE: Quantum Information Processing Elements and Quantum Information Processing Platforms Using Such Elements

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### *CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8*

     I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the **Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450** on this 19th day of **July, 2004.**

Monika A. Pychynska

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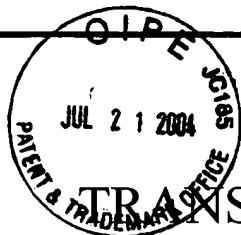
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

     Submitted herewith is/are:

     Submitted are:

(1)      Transmittal Form (1 pg.);

(2)      Information Disclosure Statement (2 pgs.);

(3)      PTO Form-1449 (6 pgs.);

(4)      copies of references cited (C1-C95); and

(5)      a return receipt postcard.

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**TRANSMITTAL FORM**

| | |
|---|---|
| Application Serial Number | 10/660,976 |
| Filing Date | September 11, 2003 |
| First Named Inventor | Vitaliano |
| Group Art Unit | 1631 |
| Examiner Name | Not yet assigned |
| Attorney Docket No. | VXM-001C |
| BATCH NO. (after allowance) | Not applicable |
| Patent No. | Not applicable |
| Issue Date | Not applicable |

*(stamp: JUL 21 2004 — O.I.P.E. PATENT & TRADEMARK OFFICE)*

## ENCLOSURES *(check all that apply)*

☐ Fee Transmittal Form
  ☐ Check Attached
  ☐ Copy of Fee Transmittal Form

☐ Amendment/Response
  ☐ Preliminary
  ☐ After Final
  ☐ Affidavits/declaration(s)
  ☐ Letter to Official Draftsperson including Drawings
  [Total Sheets _____ ]

☐ Petition for Extension of Time

☒ **Information Disclosure Statement**
  ☒ **Form PTO-1449**
  ☒ **Copies of IDS References (C1-C95)**

☐ Certified Copy of Priority Document(s)

☐ Sequence Listing submission
  ☐ Paper Copy/CD
  ☐ Computer Readable Copy
  ☐ Statement verifying identity of above

☐ Copy of Notice to File Missing Parts of Application (PTO-1553)

☐ Formal Drawing(s)

☐ Request For Continued Examination (RCE) Transmittal

☐ Power of Attorney (Revocation of Prior Powers)

☐ Terminal Disclaimer

☐ Executed Declaration and Power of Attorney for Utility or Design Patent Application

☐ Small Entity Statement

☐ CD(s) for large table or computer program

☐ Amendment After Allowance

☐ Request for Certificate of Correction
  ☐ Certificate of Correction (in duplicate)

☐ Notice of Appeal to Board of Patent Appeals and Interferences

☐ Appeal Brief (in triplicate)

☐ Status Inquiry

☒ **Return Receipt Postcard**

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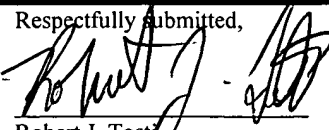
☐ Additional Enclosure(s) *(please identify below)*

### CORRESPONDENCE ADDRESS

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### SIGNATURE BLOCK

Date: July 19, 2004
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Tel. No.: (617) 248-7374
Fax No.: (617) 248-7100

Respectfully submitted,

Robert J. Tost
Attorney for Applicants
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High Street Tower
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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):    Vitaliano *et al.*

SERIAL NO.:    10/660,976    GROUP NO.:    1631

FILING DATE:    September 11, 2003    EXAMINER:    Not yet assigned

TITLE:    Quantum Information Processing Elements and Quantum Information Processing Platforms Using Such Elements

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

## REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

☒    (1)    within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or

☐    (2)    after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
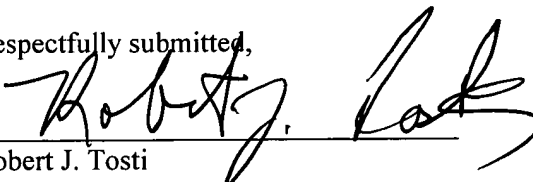
        ☐    the requisite Statement is below, **OR**

☐    the requisite fee under 37 C.F.R. 1.17(p), namely **$180.00**, is included herein, or

☐    (3)    after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee, AND**

☐    the requisite Statement is below, **AND**

☐    the requisite petition fee under 37 C.F.R. 1.17(p), namely **$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Respectfully submitted,

Date: July 19, 2004

Reg. No. 35,393

Robert J. Tosti

Attorney for Applicant(s)

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| FORM PTO - 1449 | ATTORNEY DOCKET NO.: VXM-001C |
|---|---|
| INFORMATION DISCLOSURE STATEMENT | APPLICANT(S):     Vitaliano et al. |
| | SERIAL NO.: 10/660,976 |
| | FILING DATE: September 11, 2003   GROUP: 1631 |

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| EXAM. INIT. | | DOCUMENT NUMBER | DATE | COUNTRY CODE | CLASS | SUB CLASS | FILING DATE | ABSTRACT ONLY | ENGLISH LANG (Y/N) |
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| | APPLICANT(S): Vitaliano et al. |
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| EXAMINER | DATE CONSIDERED |
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